XCA120G7–1AU All Terrain Crane

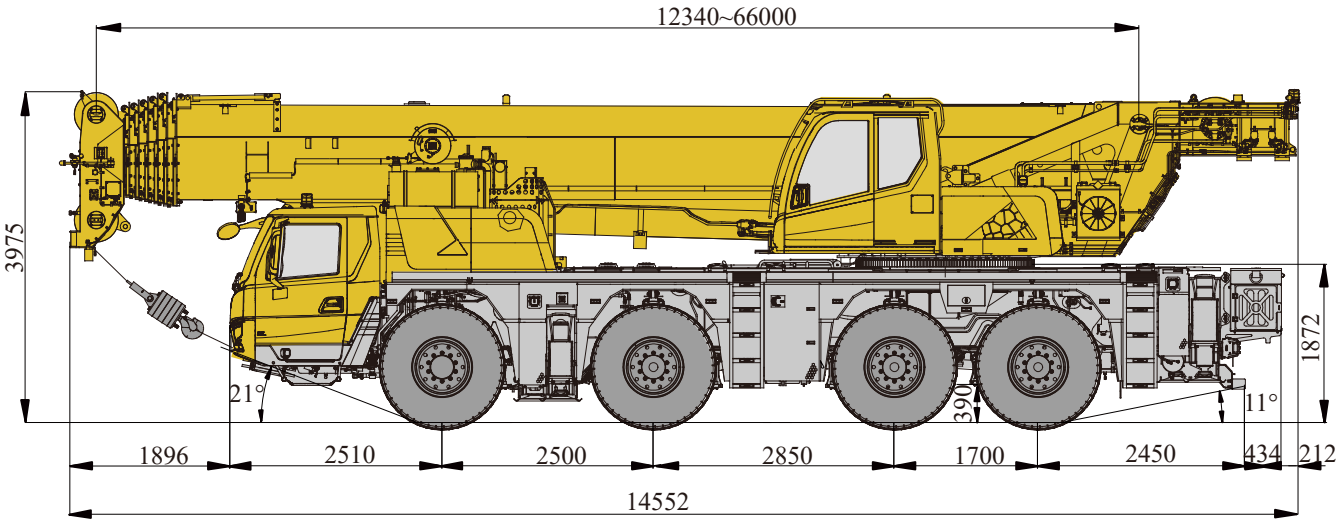
Technical Specifications

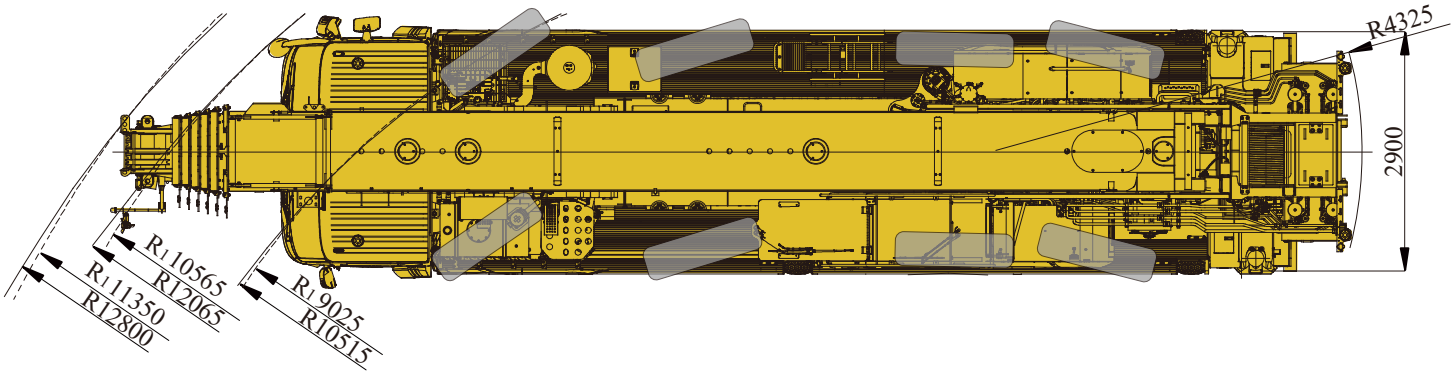
120 t | 66 m | 60m | 87m

Issue Date: 20260803

Contents

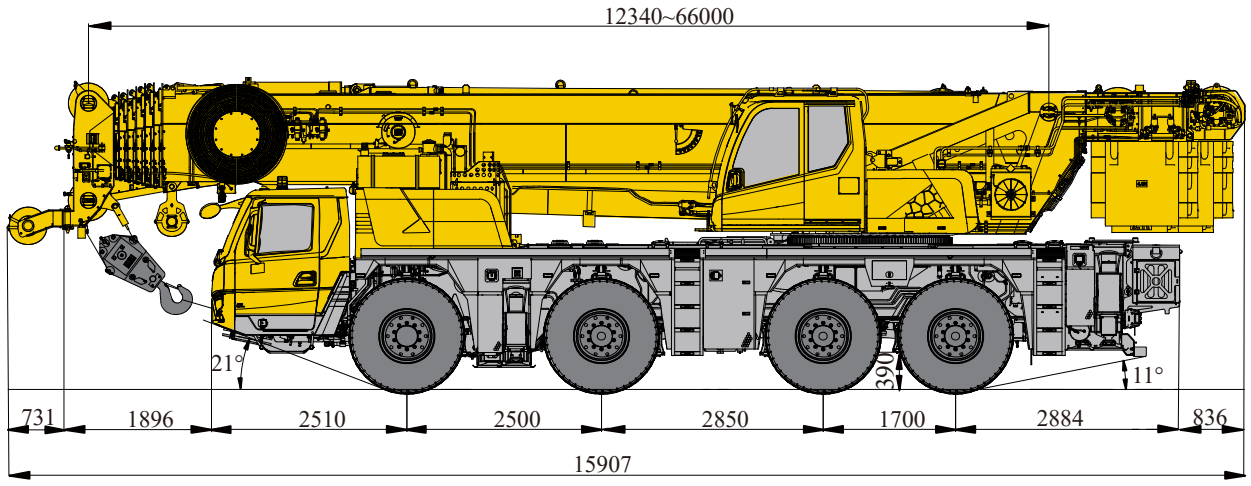
Dimensions

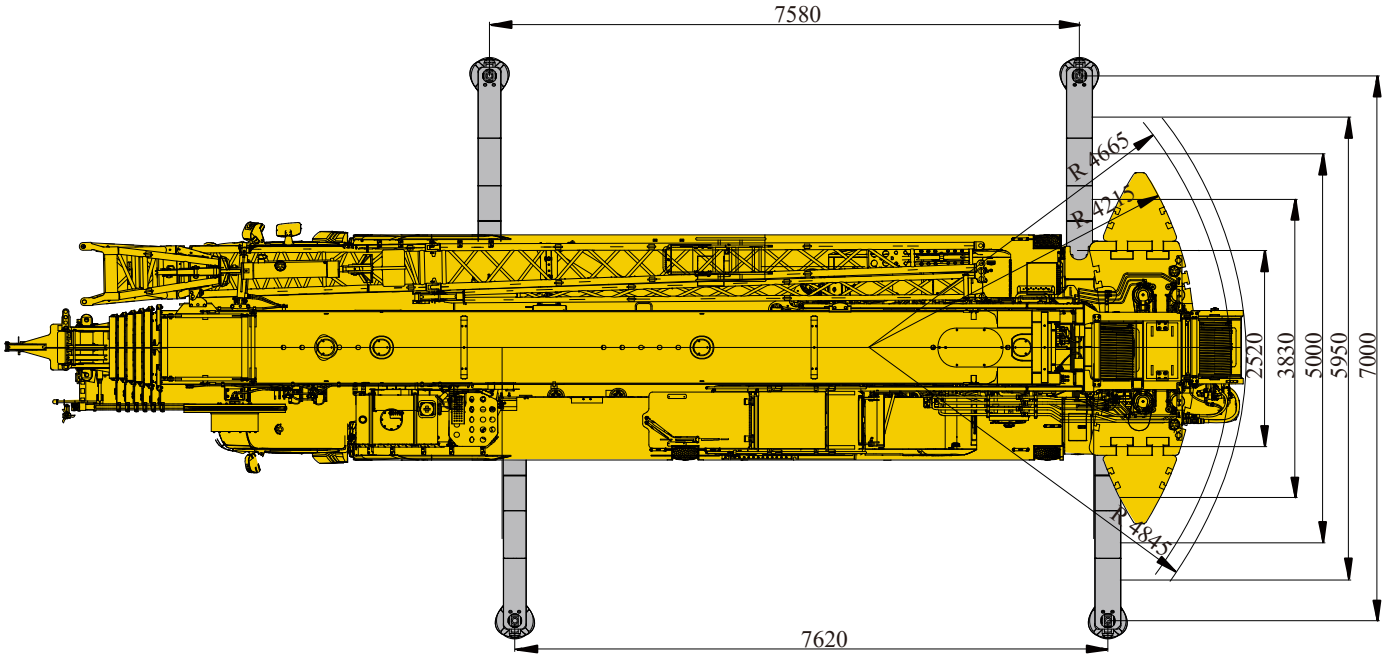




R: turning radius in road travel mode; R_1: turning radius in tight-turning radius mode.

Dimensions


12340~66000
21°
390
11°
731
1896
2510
2500
2850
1700
2884
836
15907


7580
R 4665
R 4215
2520
3830
5000
5950
7000
R 4845
7620

Dimensions

Note: The counterweight slewing radius is 4215 mm at the front and 4665 mm at the rear, and the auxiliary winch slewing radius is 4845 mm.

Technical specifications

	**Chassis**
Frame	Designed and manufactured by XCMG, made of high strength steel.
Outriggers	H-shaped outriggers, with push-pull outrigger floats. There are four working positions (fully extended, 3/4 extended, half extended and 1/4 extended) to meet different OM requirements. The outrigger control panel adopts CAN bus control and is installed on the sides of the chassis. Outrigger float dimensions: 500×500 mm. Maximum reaction force of outrigger: front outrigger: 591kN; rear outrigger: 738kN.
Engine	MTU engine OM471LA.E5-2; Maximum net power: 360kW/1600rpm; Maximum torque: 2400N·m/1300rpm; Engine emission standard: EU Stage V; AdBlue/DEF tank capacity: 40 L; Fuel tank capacity: 420 L.
Hydraulic system	The variable pump is connected to the engine through PTO and used for controlling the radiator hydraulic system, steering, outriggers and suspension hydraulic system, meeting the requirements for independent cooling, rear steering, outrigger and suspension applications. Hydraulic oil tank capacity: 695 L.
Transmission	Equipped with original imported German ZF AMT automatic transmission 12TX2616SO, with 12 forward gears, 2 reverse gears, and a retarder.
Safety devices	Emergency stop device, 360° panoramic images, ABS, outrigger pressure detection, outrigger length detection, and axle load detection.
Axles	High-strength axles 2, 3, and 4 with two reducers, with pneumatically-controlled disc brake equipped in axles 1~4. Axles 2, 3 and 4 for driving. Drive/steer type: 8×6×8.
Suspension	Hydro-pneumatic independent suspension system has good shock-absorbing effect. Various functions such as automatic leveling, moving up and down of suspension, and switching over of unlocked and locked suspension are available. The stroke of suspension cylinder: -110mm ~ +110mm.
Tires	8 tires and 1 spare tire. Tire specifications: 525/80R25.
Braking system	Service brake: dual-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on axles 2~4. Auxiliary brake: engine in-cylinder brake and transmission retarder brake.
Steering	All axles steering, axle 1: the mechanical and hydraulic power steering; 2 ~ 4 axles: the electro-hydraulic control steering. It is suitable for various demands of operation modes and various steering modes can be realized.
Driver's cab	New full-width luxury steel structure cab is equipped with electrically operated lifting windows, electrically adjustable rearview mirrors, and a multi-function air-suspension seat for the driver and co-driver. It adopts a brand-new combined central control panel, along with a 12.3-inch large-screen color LCD display, Blind Spot Information System (BSIS), and heating & cooling air conditioning (HVAC).
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.

Technical specifications

	Superstructure
Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	Two axial variable displacement piston pumps are driven by the transmission PTO for superstructure luffing, telescoping, and winch operations. Slewing is controlled by a separate closed-loop hydraulic circuit powered by the engine PTO, with proportional slewing brakes to enhance slewing maneuverability. Dual slewing motors improve low-speed slewing stability. The hydraulic oil cooler uses temperature feedback control to reduce vehicle noise.
Control system	Pilot electro-hydraulic proportional control, stepless speed regulation. All movements of the crane are controlled by 2 levers at left and right sides and virtual buttons on the display screen.
Wireless remote control device	Full-functional wireless remote control device can be used to perform main operations (telescoping, luffing, winch, slewing), auxiliary operations (operator′ s cab, counterweight cylinder, and swing-away jib folding), chassis outrigger operation, engine operation and light control, improving the convenience and safety of crane operations.
Main winch system	Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a counterbalance valve and a grooved drum equipped. Main winch and auxiliary winch are independently operated. Wire rope has a rope end, which is directly installed in rope socket.
Slewing system	Single-row four-point ball contact external tooth slewing bearing, dual slewing mechanism, driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake, capable of continuous 360° slewing, featuring power control or free slewing function, proportional braking function, and stepless speed regulation.
Luffing system	Single cylinder luffing, with counterbalance valve featuring the load compensation function.
Operator's cab	New steel operator′ s cab is tiltable. Spacious interiors, expansive field of view, and abundant storage space. All-round view safety glass with an openable windshield. A push-pull sliding door with remote control door lock, railings, and remote control and electrically extendable pull-out side step. Dual-motor wipers are fitted for the front and roof windows. A 2.5 L washer tank is equipped. Stylish interior design. Sun screens for front, rear and side windows; double-layer sun screen for the roof window. Mechanical shock-absorbing and adjustable seat with leather and breathable mesh fabric, equipped with ventilation and seat belt function. Dual LED interior light. Equipped with HMI control panel, 12-inch display, armrest box, suspended electronic foot accelerator, and electric-proportional slewing brake pedal. Equipped with air conditioning (cooling & heating), and a vehicle refrigerator.
Safety devices	Hydraulic counterbalance valve, hydraulic relief valve, hydraulic double-way lock, load moment indicator, lowering limiter to prevent rope over-releasing, anti-two block on the boom head to prevent rope over-winding, anemometer to detect the wind speed, and winch monitoring device.
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.
Load moment indicator (LMI)	When the actual load moment is approaching the overloading value, audible and visual warning will be sent out, and the dangerous operation will be automatically cut off before overloading occurs. Overload memory function (black box) and fault self-diagnosis function are available.
Counter-weight	31.5t in total, with 8 combinations. Two counterweight variable positions: front and rear, with a variable position of 450 mm.

Technical specifications

Hook block	60 t hook block, 25 t hook block, 11 t hook block.
Boom	7-section boom with U cross-section, welding structure. Single cylinder head, single cylinder pinning telescoping system is safe and reliable. 46%, 92% and 100% telescoping patterns are available. Boom length: 12.3m~66m.

Other items of equipment available on request.

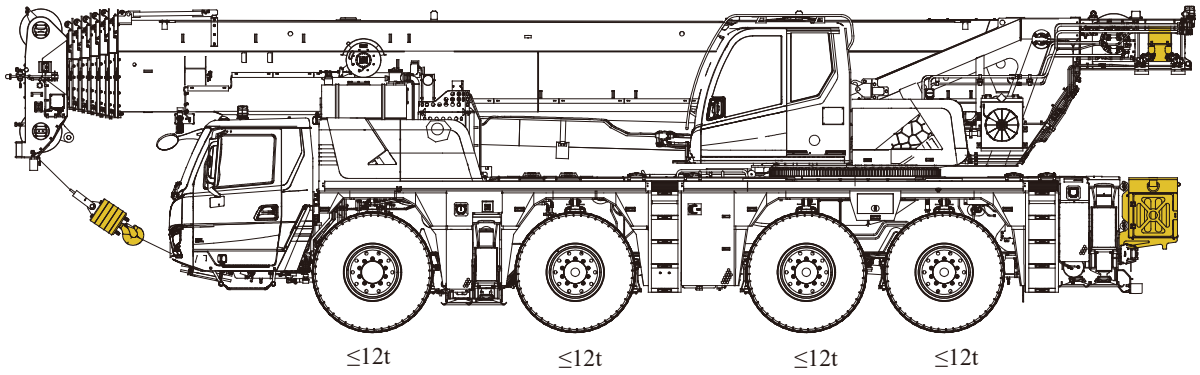
Configuration and optional equipment

Configuration	Function description
Standard	7-section boom of 66 m.

Optional equipment	Component description
Hook block	130 t hook block, and 90 t hook block.
Auxiliary winch system	Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a counterbalance valve and a grooved drum equipped. Main winch and auxiliary winch are independently operated. Wire rope has a rope end, which is directly installed in rope socket.
Additional sheave	Used to increase the parts of line, achieving greater lifting capacity.
18.5 m stepless jib	18.5m hydraulic luffing jib.
7m extension	7 m boom extension.
Independent jib head	Independent jib head of 2.9 m.
Emergency power	Provide power source for superstructure winch, slewing, luffing and telescoping systems.
GPS	By utilizing real-time positioning, remote monitoring, and intelligent dispatching, service quality and safety are improved.

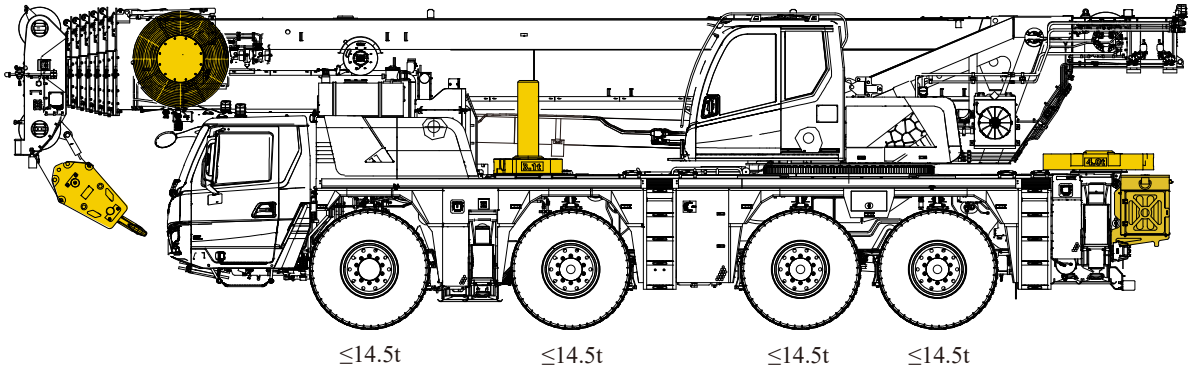
Weights

1) 48t: road travel configuration
Superstructure: 11 t hook block and 0.9 t counterweight are carried; jib, auxiliary winch, auxiliary sheave, and rubber hose drum are not carried.
Chassis: the spare box is carried.



	48t
	0.9t
	80km/h
	11t

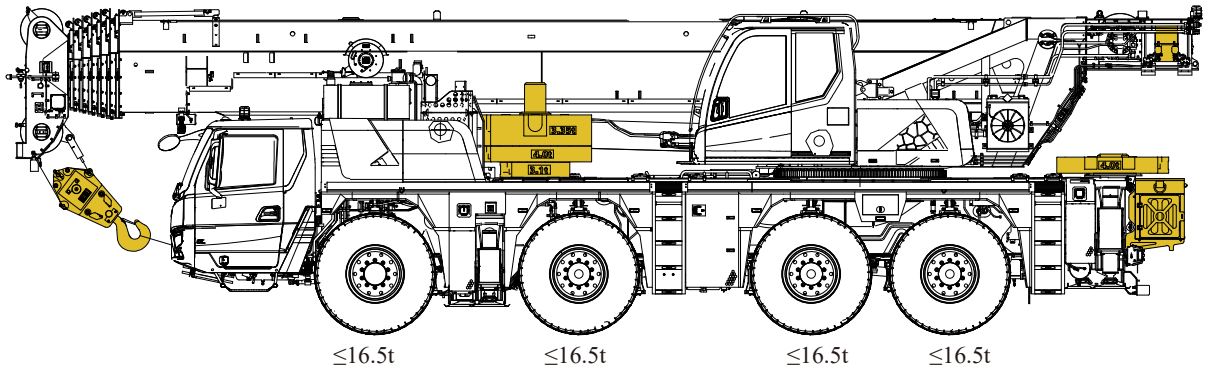
2) 57.5t: off-road travel configuration
Superstructure: 60 t hook block, 7.1 t counterweight, jib and bracket, and rubber hose drum are carried; without auxiliary winch and auxiliary sheave.
Chassis: the spare box is carried.



	57.5t
	7.1t
	40km/h
	60t

Weights

3) 66t: off-road travel configuration
Superstructure: 25 t hook block and 18.7 t counterweight are carried; jib and bracket, and rubber hose drum are not carried.
Chassis: the spare box is carried.



	66t
	18.7t
	30km/h
	25t

Weights

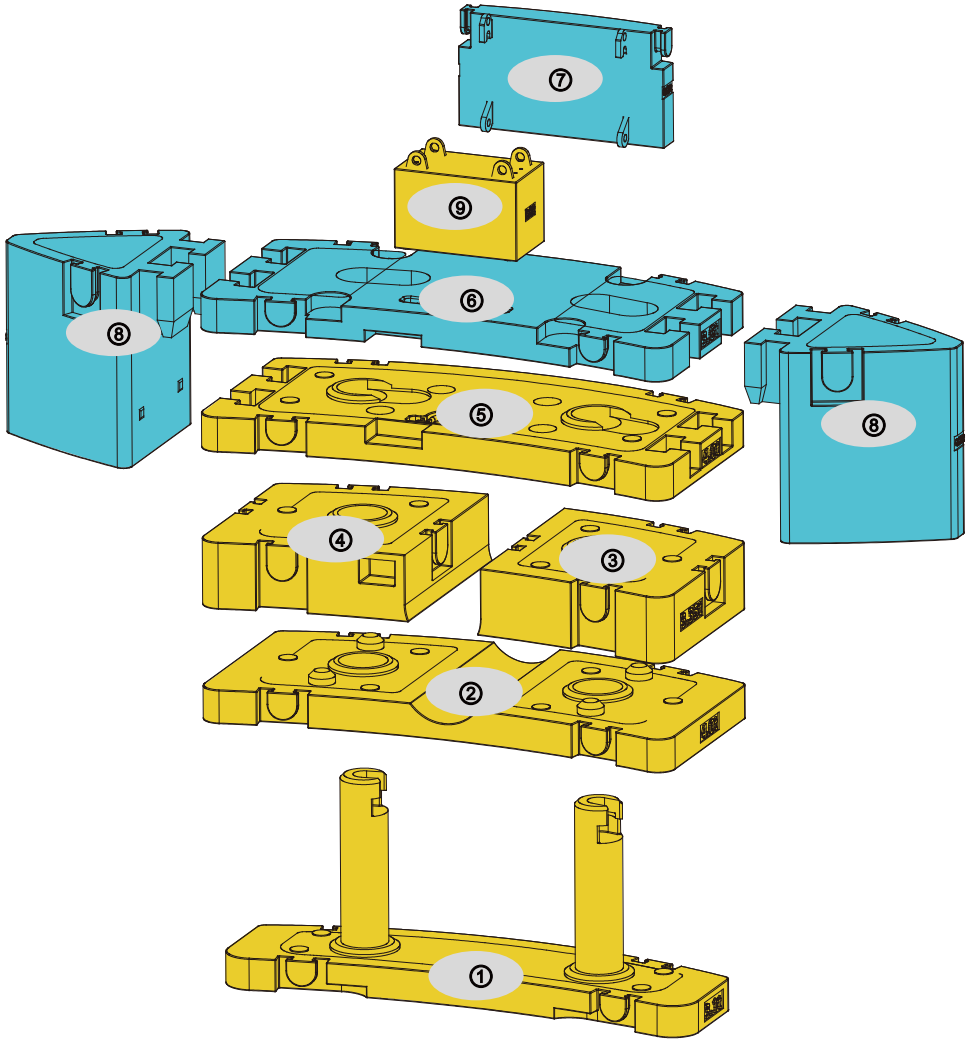
 Hook block	Parts of line	Weight (kg)	Dimensions (mm)	Notes
130t	14	1200	1907×860×837	Dual-hook
90t	10	920	1668×774×673	Dual-hook
60t	7	591	1470×780×493	Dual-hook
25t	3	365	1468×651×318	Single-hook
11t	1	227	810×320×320	Single-hook

Working speeds

525/80 R 25 (20.5 R 25)	2 ~ 80 km/h	60%

	Max	F	ϕ	
①	0-135 m/min, single line, no load	89 kN	20 mm	250 m
②	0-135 m/min, single line, no load	89 kN	20 mm	205 m
	0-1.45 r/min			
	Approx. 60 s for boom luffing from -1° to 81°			
	Approx. 550 s for boom extending from 12.3 m to 66 m			

Counterweight

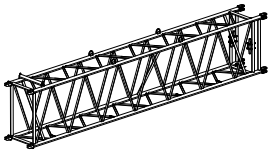
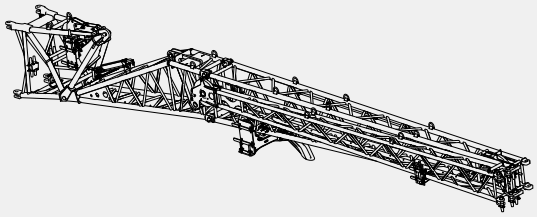
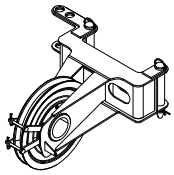
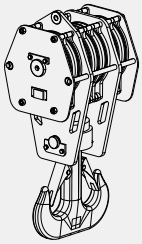
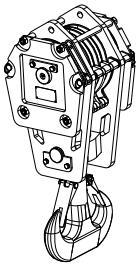


	①	②	③	④	⑤	⑥	⑦	⑧	⑨
Dimensions (L×W×H) (mm)	2750×89-6×1160	2750×140-0×260	1174×139-5×414.5	1174×139-5×414.5	2750×140-0×236.5	2750×140-0×196	1200×29-3×667	1109×98-1×1085	714×40-2×545
Weight (t)	3.1	4	3.35	3.35	4	3.6	0.9	4.15	0.9

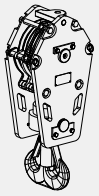
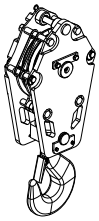
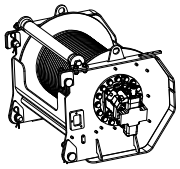
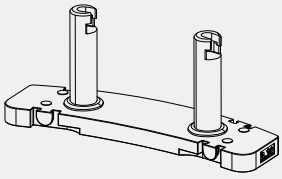
Operation modes	31.5t	22.3t	18.7t	14.7t	8 t	7.1 t	4 t	0.9t
Combinations	①+②+③-+④+⑤+⑥-+⑦+⑧×2+⑨	①+②+③-+④+⑤+⑥-+⑨	①+②+③-+④+⑤+⑨	①+②+③-+④+⑨	①+②+⑨	①+⑤	①+⑨	⑨

Note: the yellow counterweight slabs can be carried for off-road travel, while blue slabs cannot be carried for off-road travel.

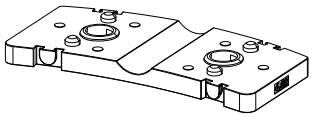
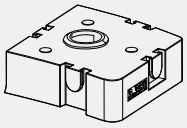
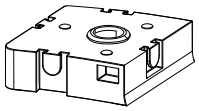
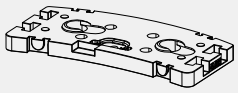
Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimensions (mm)
Boom extension		640	1	7100×1460×810
Jib and its bracket		2000	1	11650×1570×960
Auxiliary sheave		80	1	818×787×486
130 t hook block		1200	1	1907×860×837
90 t hook block		920	1	1668×774×673

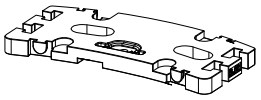
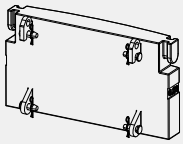
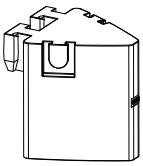
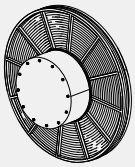
Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimensions (mm)
60 t hook block		591	1	1470×780×493
25 t hook block		365	1	1468×651×318
11 t hook block		227	1	810×320×320
Auxiliary winch (Electrical system, hydraulic system, and wire rope included)		1045	1	1179×761×732
Counterweight slab ①		3100	1	2750×896×1160

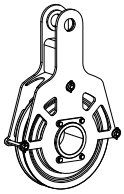
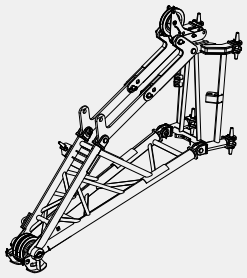
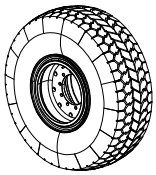
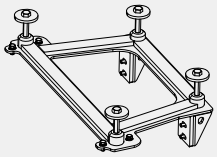
Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimensions (mm)
Counterweight slab ②		4000	1	2750×1400×260
Counterweight slab ③		3350	1	1174×1395×414.5
Counterweight slab ④		3350	1	1174×1395×414.5
Counterweight slab ⑤		4000	1	2750×1400×236.5

Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimensions (mm)
Counterweight slab ⑥		3600	1	2750×1400×196
Counterweight slab ⑦		900	1	1200×293×667
Counterweight slab ⑧		4150	2	1109×981×1085
Hose reel		270	1	1300×1300×545

Dimensions of parts to be transported

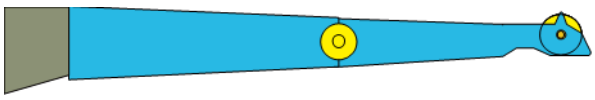
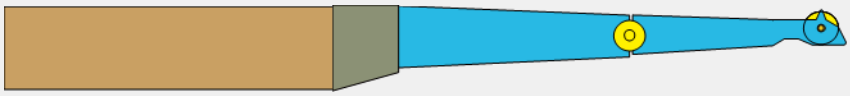
Name	Illustration	Single weight (kg)	Qty	Dimensions (mm)
Additional sheave		40	2	705×450×138
Independent jib head		680	1	3140×830×2680
Spare tire		310	1	1500×1500×540
Counterweight bracket		87	1	1380×700×346

Boom/jib combinations

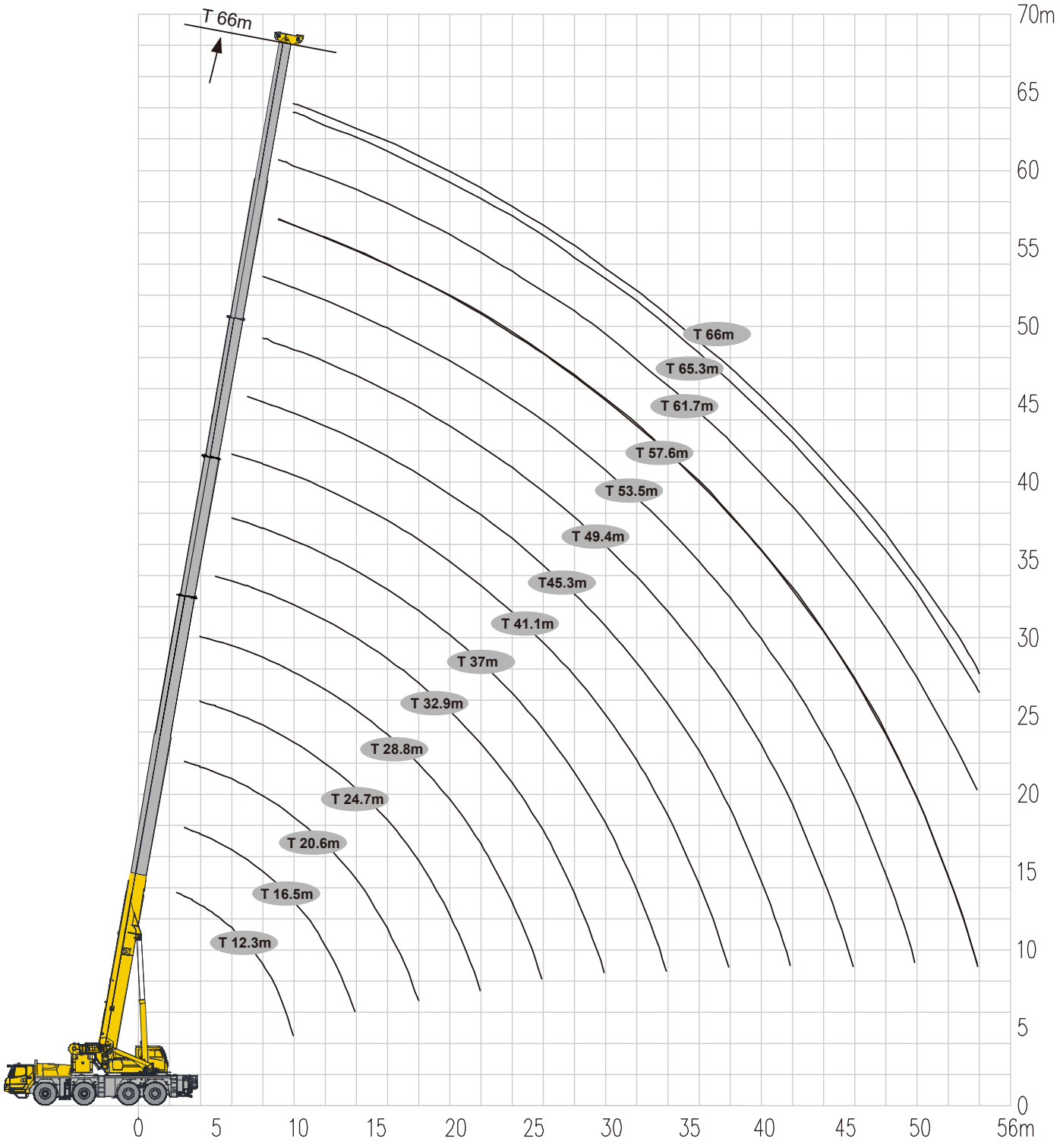
Boom	Independent jib head	Fixed jib	Boom extension+fixed jib
T: 12.3~66 m	T: 12.3~66 m I: 2.9 m	T: 12.3~65.3 m F:11 m, 18.5 m	T: 12.3~61.7 m F: 18.5m V: 7m

Boom/jib combinations

Components	Structure type
1st jib section	
2nd jib section	
Boom extension of 8m	
Connecting bracket	

Fixed jib	Structure type
Fixed jib – 10.5m	
Fixed jib – 18.5m	
Fixed jib – 25.5m	

Working range diagram for boom



T counterweight in the rear position

EN13000

12.3m~66m



7.6m×7.0m | 31.5t

m	12.3*	12.3	16.5	20.6	24.7	28.8	32.9	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	66	m
2.5	120.0**																2.5
3	80.0	70.0	67.0	65.0													3
3.5	78.0	70.0	65.4	63.0													3.5
4	72.0	66.4	65.1	60.2	57.0	54.6											4
4.5	68.0	61.7	61.0	56.8	54.0	52.0											4.5
5	64.0	57.4	57.4	54.0	50.5	48.8	46.7										5
6	55.0	50.1	50.1	48.5	46.7	44.3	42.5	40.8									6
7	48.0	45.0	46.0	45.0	43.2	40.9	38.5	38.7	34.7								7
8	41.0	39.5	40.6	40.5	39.7	37.9	35.4	33.9	33.1								8
9	34.5	34.5	36.1	36.0	36.5	35.5	32.6	31.4	30.4	27.4							9
10	25.0	25.0	32.1	32.5	32.2	32.8	30.1	29.7	27.6	26.1	23.2						10
12			25.6	25.8	26.6	26.2	25.1	25.7	24.2	22.7	21.2	18.0	14.2				12
14			19.4	21.5	22.3	22.0	21.2	21.6	20.7	19.6	18.8	16.0	14.3	11.2	9.0	8.8	14
16				18.0	19.0	18.1	18.2	17.6	16.9	16.5	16.4	14.0	13.3	11.1	8.8	8.6	16
18				15.1	16.0	15.2	15.9	15.2	14.7	13.8	13.9	12.6	12.0	10.5	8.6	8.3	18
20					13.7	13.2	13.5	13.1	12.9	11.6	11.6	11.4	10.9	10.0	8.4	8.0	20
22					11.6	11.7	11.5	11.2	11.4	10.6	10.0	10.2	9.8	9.2	8.0	7.6	22
24						10.3	9.9	9.8	9.9	9.6	8.9	8.9	8.7	8.1	7.5	7.1	24
26						9.3	8.9	9.0	8.6	8.6	8.1	8.1	7.6	7.2	7.1	6.6	26
28							8.0	8.0	7.5	7.6	7.2	7.3	6.7	6.3	6.2	6.1	28
30							7.0	7.1	6.7	6.7	6.4	6.5	6.1	5.7	5.4	5.3	30
32								6.3	6.1	5.9	6.0	5.7	5.5	5.0	4.7	4.7	32
34								5.6	5.7	5.3	5.4	5.2	4.8	4.4	4.1	4.1	34
36									5.2	4.9	4.8	4.7	4.3	3.8	3.6	3.6	36
38									4.8	4.5	4.4	4.1	3.8	3.3	3.2	3.1	38
40										4.1	3.9	3.7	3.3	2.9	2.8	2.7	40
42										3.4	3.4	3.2	2.9	2.5	2.4	2.4	42
44											3.1	2.8	2.6	2.2	2.1	2.0	44
46											2.8	2.6	2.3	1.8	1.8	1.7	46
48												2.3	1.9	1.5	1.5	1.5	48
50												1.8	1.6	1.3	1.2	1.2	50
52															1.0	1.0	52
54															0.8	0.8	54

* Over rear performance.
** Capacity class.

T counterweight in the rear position

EN13000

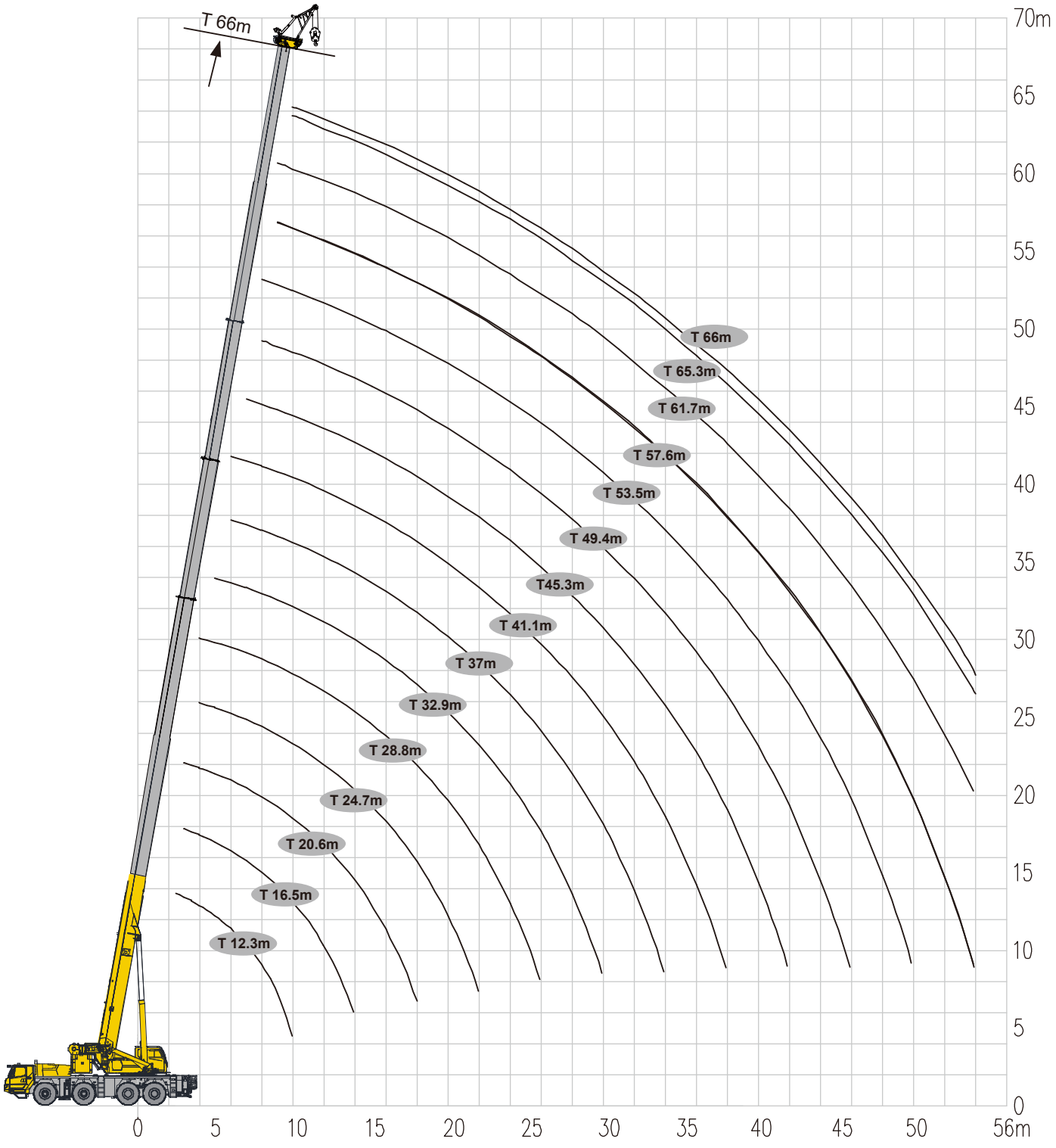
12.3m~66m



7.6m×7.0m | 18.7t

m	12.3	16.5	20.6	24.7	28.8	32.9	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	66	m
3	66.5	63.7	61.8													3
3.5	66.5	62.1	59.9													3.5
4	63.1	61.8	57.2	54.2	51.9											4
4.5	58.6	58.0	54.0	51.3	49.4											4.5
5	54.5	54.5	51.3	48.0	46.4	44.4										5
6	47.6	47.5	46.1	44.4	42.1	40.4	38.8									6
7	41.5	42.1	41.2	41.0	38.9	36.0	35.0	33.0								7
8	35.8	35.0	35.0	34.1	33.2	32.2	30.4	29.5								8
9	31.3	31.3	31.3	30.4	29.5	28.5	27.6	26.2	25.8							9
10	22.8	27.6	27.6	26.7	25.8	25.8	24.8	23.9	23.0	22.0						10
12		20.7	21.6	21.8	21.6	21.1	20.2	20.2	18.7	18.3	17.1	13.5				12
14		15.8	16.6	16.9	17.1	16.9	16.8	16.5	16.2	15.6	15.1	13.6	10.7	8.6	8.4	14
16			13.2	13.4	13.8	13.7	13.8	13.1	13.3	12.8	12.7	12.3	10.5	8.4	8.2	16
18			11.0	11.4	11.3	11.4	11.3	11.1	10.8	10.6	10.8	10.4	10.0	8.2	7.9	18
20				9.5	9.4	9.9	9.4	9.4	9.0	9.3	9.0	8.7	8.3	8.0	7.6	20
22				8.0	8.3	8.4	8.3	8.2	8.1	7.8	7.6	7.2	6.9	6.9	6.9	22
24					7.1	7.2	7.2	7.0	6.9	6.6	6.4	6.0	5.7	5.7	5.7	24
26					6.1	6.2	6.2	6.0	5.9	5.6	5.4	5.0	4.7	4.8	4.7	26
28						5.3	5.4	5.2	5.1	4.8	4.6	4.2	3.9	4.0	3.9	28
30						4.6	4.7	4.5	4.4	4.1	3.9	3.5	3.2	3.3	3.2	30
32							4.0	3.9	3.8	3.5	3.3	2.9	2.6	2.7	2.6	32
34							3.5	3.4	3.2	3.0	2.7	2.4	2.1	2.1	2.1	34
36								2.9	2.8	2.5	2.3	1.9	1.6	1.7	1.6	36
38								2.5	2.4	2.1	1.9	1.5	1.2	1.3	1.2	38
40									2.0	1.7	1.5	1.2	0.9	0.9	0.9	40
42									1.6	1.4	1.2	0.8				42
44										1.1	0.9					44
46										0.8	0.6					46

Working range diagram for independent jib head



TI counterweight in the rear position

EN13000

	
12.3m~66m	2.9m

		
7.6m×7.0m	31.5t	

m	12.3	16.5	20.6	24.7	28.8	32.9	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	66	m
3	30.0															3
3.5	30.0															3.5
4	29.1	30.0	30.0	30.0												4
4.5	27.5	29.8	30.0	30.0												4.5
5	25.7	28.8	30.0	30.0	30.0											5
6	23.0	27.0	28.7	29.7	30.0	18.0										6
7	21.2	24.5	27.3	28.4	29.1	29.5	14.2									7
8	19.4	22.6	25.4	27.1	28.2	28.6	28.6									8
9	17.6	20.8	23.7	25.6	26.5	27.1	27.8	25.7	17.5							9
10	16.7	19.7	22.1	23.9	25.5	26.0	25.1	23.8	21.3							10
12	15.0	17.1	19.6	21.6	22.8	22.7	22.1	21.0	18.4	16.8	15.3					12
14		16.3	17.7	19.3	19.4	19.4	18.5	18.3	16.4	14.6	14.3	12.0	9.7	7.6	7.3	14
16		14.6	15.9	17.5	17.0	16.8	15.9	15.9	14.6	12.9	12.8	11.2	9.7	7.5	7.2	16
18			15.0	15.0	15.0	15.0	14.1	13.2	13.1	11.6	11.3	10.1	9.3	7.4	7.2	18
20			13.1	13.6	13.0	13.0	12.1	11.3	11.3	10.0	9.6	8.8	8.1	6.9	6.7	20
22				11.8	11.6	11.3	10.4	10.4	10.0	8.8	8.6	7.8	7.2	6.6	6.5	22
24				10.2	10.1	9.7	9.4	9.0	8.6	7.9	7.8	7.0	6.4	5.9	5.8	24
26					8.8	8.4	8.2	8.0	7.7	7.2	6.9	6.2	5.8	5.4	5.3	26
28					7.7	7.5	7.2	7.0	6.6	6.5	6.3	5.7	5.3	4.7	4.8	28
30						6.6	6.3	6.0	5.9	5.8	5.8	5.2	4.8	4.3	4.3	30
32						5.8	5.5	5.5	5.3	5.0	5.3	4.7	4.3	3.8	3.8	32
34							4.7	4.8	4.5	4.2	4.8	4.3	3.8	3.4	3.4	34
36							4.0	4.1	4.2	4.1	4.2	3.8	3.4	3.0	3.0	36
38								3.6	3.8	3.8	3.8	3.5	3.1	2.7	2.7	38
40								3.0	3.2	3.5	3.2	2.9	2.6	2.4	2.3	40
42									2.8	3.0	2.8	2.5	2.2	2.1	2.1	42
44									2.5	2.6	2.4	2.1	1.8	1.8	1.8	44
46										2.3	2.1	1.7	1.4	1.5	1.4	46
48										2.0	1.7	1.4	1.1	1.2	1.1	48
50											1.4	1.1	0.8	0.9	0.8	50
52											1.2	0.8		0.6		52
54												0.6				54

TI counterweight in the rear position

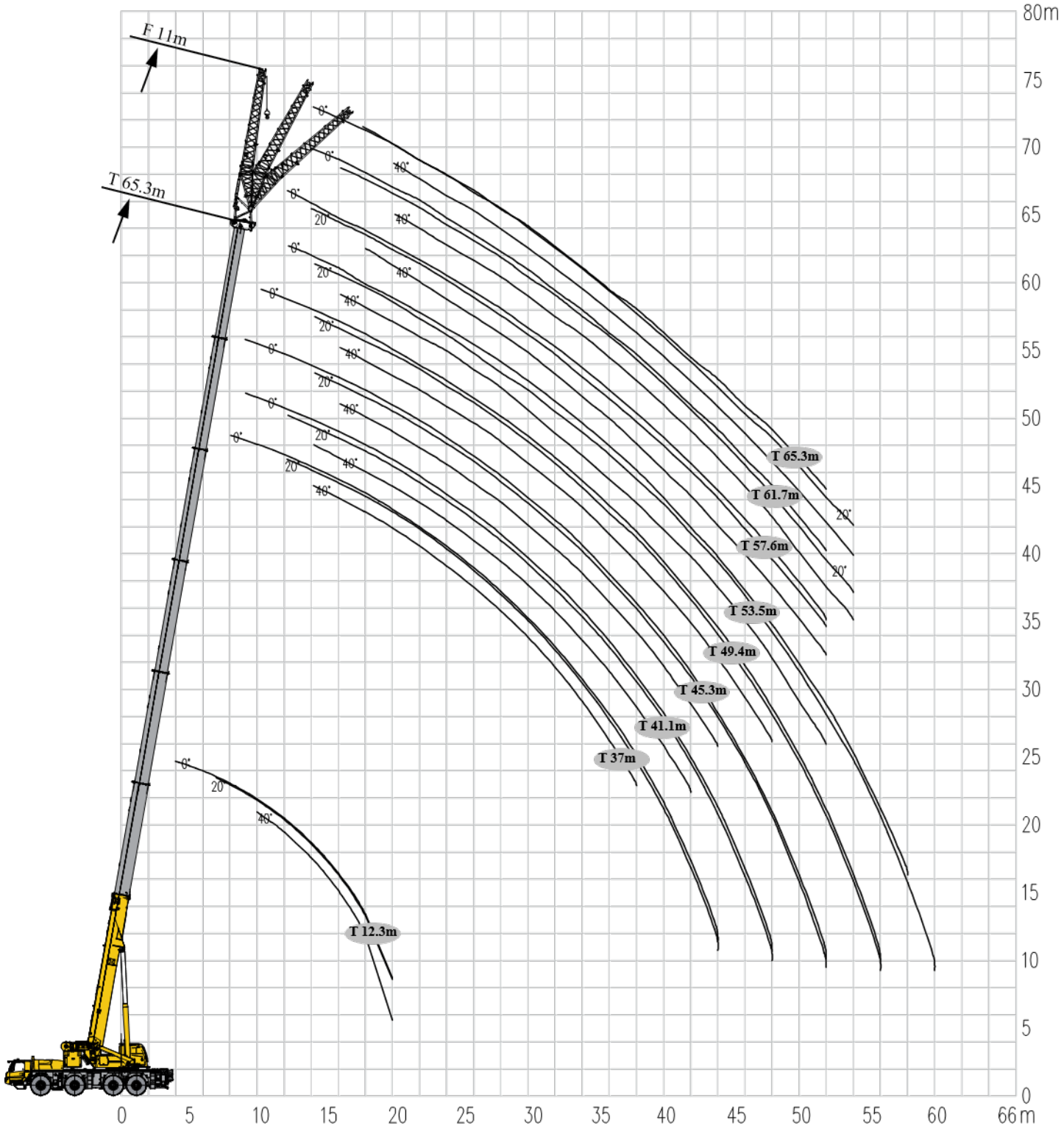
EN13000

	
12.3m~66m	2.9m

		
7.6m×7.0m	18.7t	

m	12.3	16.5	20.6	24.7	28.8	32.9	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	66	m
3	29.4															3
3.5	29.4															3.5
4	28.5	29.4	29.4	29.4												4
4.5	27.0	29.2	29.4	29.4												4.5
5	25.2	28.2	29.4	29.4	29.4											5
6	22.5	26.5	28.2	29.1	29.4	17.7										6
7	20.7	24.0	26.7	27.8	28.5	28.9	13.9									7
8	19.0	22.1	24.9	26.6	27.7	28.0	28.0									8
9	17.2	20.4	23.2	25.1	26.0	26.6	27.2	25.2	15.7							9
10	16.4	19.3	21.7	23.4	25.0	25.5	24.6	23.4	20.9							10
12	14.7	16.8	19.2	20.7	21.1	21.6	21.0	20.5	18.0	16.5	15.0					12
14		15.6	16.7	17.2	17.0	16.6	16.2	15.7	15.2	14.3	14.0	11.8	9.5	7.5	7.2	14
16		13.0	13.5	13.6	13.4	13.3	12.9	12.6	12.2	12.0	11.9	11.0	9.5	7.4	7.1	16
18			11.0	11.0	10.9	10.7	10.4	10.1	10.0	9.8	10.3	9.7	9.1	7.2	7.0	18
20			9.0	9.1	9.1	9.0	8.4	8.5	8.3	8.3	8.6	8.4	7.9	6.8	6.5	20
22				7.8	7.8	7.4	7.3	7.0	7.2	7.0	7.2	6.9	6.5	6.5	6.4	22
24				6.8	6.6	6.2	6.1	5.9	6.0	6.2	6.0	5.7	5.3	5.4	5.3	24
26					5.6	5.3	5.4	5.3	5.0	5.3	5.0	4.7	4.3	4.4	4.3	26
28					4.7	4.7	4.6	4.5	4.7	4.4	4.2	3.8	3.5	3.6	3.5	28
30						4.1	3.8	4.1	4.0	3.7	3.5	3.1	2.8	2.8	2.8	30
32							3.3	3.5	3.4	3.1	2.8	2.5	2.2	2.2	2.2	32
34							2.9	3.0	2.8	2.5	2.3	1.9	1.6	1.7	1.6	34
36								2.5	2.3	2.1	1.8	1.5	1.2	1.2	1.2	36
38								2.1	1.9	1.7	1.4	1.1	0.8	0.8	0.8	38
40									1.6	1.3	1.0	0.7				40
42									1.2	1.0	0.7					42
44										0.7						44

Working range diagram for jib



TF counterweight in the rear position

EN13000

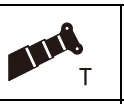
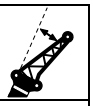
T	F	
12.3m~65.3m	11m	0°

		360°
7.6m×7.0m	31.5t	

m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	m
4	17.0									4
4.5	17.0									4.5
5	17.0									5
6	17.0									6
7	17.0									7
8	17.0	15.8								8
9	16.8	15.8	13.5	12.6						9
10	15.6	15.8	13.5	12.6	11.4					10
12	13.2	15.8	13.5	12.6	11.3	10.0				12
14	11.4	15.8	13.5	12.6	11.2	9.9				14
16	10.0	15.6	13.5	12.6	11.1	9.6	7.8			16
18	9.0	14.5	13.5	11.9	10.4	9.4	7.5	5.8		18
20	8.4	12.5	11.9	10.4	9.2	9.1	7.3	5.7	4.5	20
22		11.6	10.6	9.3	8.4	7.7	7.1	5.6	4.4	22
24		10.0	9.5	8.4	7.5	6.9	6.4	5.4	4.3	24
26		8.6	8.1	7.6	6.7	6.2	5.8	5.3	4.2	26
28		7.5	7.0	6.7	6.0	5.6	5.2	5.0	4.0	28
30		6.5	6.0	5.8	5.5	5.1	4.8	4.6	4.0	30
32		5.7	5.2	4.9	4.9	4.6	4.4	4.2	3.9	32
34		4.9	4.4	4.2	4.1	4.2	3.9	3.8	3.5	34
36		4.3	3.8	3.6	3.5	3.6	3.6	3.6	3.2	36
38		3.7	3.2	3.0	2.9	3.0	3.2	3.2	2.9	38
40		3.2	2.7	2.5	2.4	2.5	2.7	2.9	2.8	40
42		2.8	2.3	2.1	2.2	2.3	2.2	2.4	2.4	42
44		2.4	1.9	1.7	2.0	2.1	1.8	2.0	2.0	44
46			1.5	1.3	1.9	1.9	1.4	1.6	1.6	46
48			1.2	1.1	1.6	1.8	1.1	1.3	1.3	48
50				1.0	1.5	1.6	0.8	1.0	1.0	50
52				0.9	1.4	1.4	0.5	0.7	0.7	52
54					1.2	1.2				54
56					1.1	0.9				56
58						0.7				58

TF counterweight in the rear position

EN13000

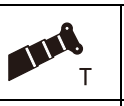
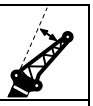
		
12.3m~65.3m	11m	20°

		
7.6m×7.0m	31.5t	

m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	m
7	9.7									7
8	9.3									8
9	8.6									9
10	8.4									10
12	7.6	10.3	10.5							12
14	6.9	9.6	9.8	9.9						14
16	6.1	8.9	9.1	9.3						16
18	5.6	8.5	8.5	8.7	8.9	8.9	7.2			18
20	5.3	8.3	8.4	8.4	8.4	8.1	7.1			20
22		7.9	8.1	8.2	8.0	7.4	6.8	5.5	4.5	22
24		7.4	7.7	7.9	7.3	6.6	6.1	5.4	4.3	24
26		7.1	7.2	7.3	6.5	6.1	5.6	5.2	4.2	26
28		6.7	6.9	6.6	5.9	5.5	5.1	4.9	4.1	28
30		6.3	6.5	6.1	5.4	4.9	4.6	4.5	4.0	30
32		6.0	5.6	5.4	4.9	4.5	4.3	4.1	3.8	32
34		5.3	4.8	4.6	4.5	4.1	3.9	3.7	3.6	34
36		4.6	4.2	4.0	3.9	3.8	3.6	3.5	3.3	36
38		4.0	3.5	3.4	3.3	3.4	3.3	3.2	3.1	38
40		3.4	3.0	2.8	2.8	2.9	3.0	3.0	2.8	40
42		2.9	2.5	2.3	2.3	2.4	2.5	2.8	2.5	42
44		2.5	2.1	1.9	2.0	2.1	2.1	2.3	2.2	44
46			1.7	1.5	1.8	2.0	1.7	1.9	1.9	46
48			1.3	1.3	1.7	1.9	1.4	1.6	1.5	48
50				1.1	1.6	1.7	1.0	1.2	1.2	50
52				0.9	1.4	1.6	0.7	0.9	0.9	52
54					1.3	1.3		0.7	0.6	54
56					1.1	1.0				56
58						0.8				58
60						0.5				60

TF counterweight in the rear position

EN13000

		
12.3m~65.3m	11m	40°

		
7.6m×7.0m	31.5t	

m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	m
10	5.7									10
12	5.3									12
14	5.0	6.1	6.0							14
16	4.6	5.8	5.8	6.1						16
18	4.5	5.6	5.6	5.7						18
20	4.5	5.3	5.4	5.4	5.4	5.3	5.5			20
22		5.1	5.2	5.2	5.2	5.2	5.2			22
24		5.0	5.0	5.1	5.1	5.0	5.0			24
26		4.8	4.9	5.0	4.9	4.9	4.9	4.9	4.3	26
28		4.6	4.8	4.8	4.8	4.7	4.6	4.5	4.2	28
30		4.6	4.6	4.7	4.6	4.6	4.5	4.3	4.0	30
32		4.5	4.5	4.6	4.5	4.4	4.3	4.1	3.8	32
34		4.5	4.4	4.5	4.5	4.2	4.0	3.8	3.5	34
36		4.3	4.4	4.2	4.2	3.9	3.7	3.6	3.3	36
38		4.1	3.7	3.6	3.6	3.7	3.4	3.4	3.1	38
40			3.1	3.0	3.0	3.1	3.2	3.1	2.8	40
42			2.6	2.5	2.5	2.6	2.8	2.9	2.6	42
44				2.0	2.2	2.3	2.3	2.5	2.3	44
46					1.9	2.2	1.9	2.1	2.0	46
48					1.8	1.9	1.5	1.7	1.7	48
50						1.8	1.2	1.4	1.4	50
52						1.6	0.8	1.1	1.1	52
54								0.8	0.8	54

TF counterweight in the rear position

EN13000

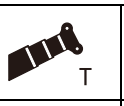
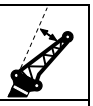
T	F	
12.3m~65.3m	11m	0°

		360°
7.6m×7.0m	18.7t	

m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	m
4	17.0									4
4.5	17.0									4.5
5	17.0									5
6	17.0									6
7	17.0									7
8	17.0	15.8								8
9	16.8	15.8	13.5	12.6						9
10	15.6	15.8	13.5	12.6						10
12	13.2	15.8	13.5	12.6	11.3	10.0				12
14	11.4	15.8	13.5	12.6	11.2	9.9				14
16	10.0	13.9	13.3	12.6	11.1	9.6	7.8			16
18	9.0	11.2	10.6	10.3	10.3	9.4	7.5	5.8		18
20	8.4	9.1	8.6	8.3	8.2	8.3	7.3	5.7	4.5	20
22		7.5	7.0	6.7	6.7	6.7	6.9	5.6	4.4	22
24		6.2	5.7	5.5	5.4	5.5	5.6	5.4	4.3	24
26		5.2	4.7	4.4	4.6	4.9	4.6	4.8	4.0	26
28		4.3	3.8	3.6	4.2	4.4	3.7	3.9	3.9	28
30		3.5	3.0	3.2	3.8	3.9	3.0	3.2	3.1	30
32		2.9	2.7	2.8	3.5	3.3	2.3	2.5	2.5	32
34		2.3	2.5	2.6	3.0	2.7	1.8	2.0	1.9	34
36		1.8	2.2	2.3	2.5	2.2	1.3	1.5	1.5	36
38		1.4	1.9	2.1	2.1	1.8	0.8	1.1	1.0	38
40		1.0	1.8	1.9	1.7	1.4		0.7	0.6	40
42		0.7	1.6	1.7	1.3	1.0				42
44			1.4	1.3	1.0	0.7				44
46			1.2	1.1	0.7					46
48			1.0	0.8						48

TF counterweight in the rear position

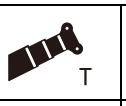
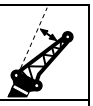
EN13000

		
12.3m~65.3m	11m	20°

		
7.6m×7.0m	18.7t	

	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
7	9.7									7
8	9.3									8
9	8.6									9
10	8.4									10
12	7.6	10.3	10.5							12
14	6.9	9.6	9.8	9.9						14
16	6.1	8.9	9.1	9.3						16
18	5.6	8.5	8.5	8.7	8.9	8.9	7.2			18
20	5.3	8.3	8.4	8.4	8.4	8.1	7.1			20
22		7.7	7.9	7.6	7.6	7.4	6.8	5.5	4.5	22
24		6.9	6.5	6.3	6.2	6.3	6.1	5.4	4.3	24
26		5.8	5.3	5.1	5.1	5.2	5.3	5.2	4.2	26
28		4.8	4.4	4.2	4.1	4.2	4.4	4.6	4.1	28
30		4.0	3.6	3.4	3.7	3.8	3.6	3.8	3.7	30
32		3.3	2.9	2.8	3.3	3.5	2.9	3.1	3.1	32
34		2.7	2.5	2.6	3.1	3.1	2.3	2.5	2.4	34
36		2.1	2.1	2.3	2.8	2.6	1.7	1.9	1.9	36
38		1.7	2.0	2.1	2.4	2.1	1.3	1.5	1.4	38
40		1.2	1.8	1.9	1.9	1.7	0.8	1.0	1.0	40
42		0.8	1.6	1.8	1.6	1.3		0.7	0.6	42
44			1.4	1.5	1.2	1.0				44
46			1.2	1.2	0.9	0.7				46
48			1.0	0.9	0.6					48
50				0.6						50

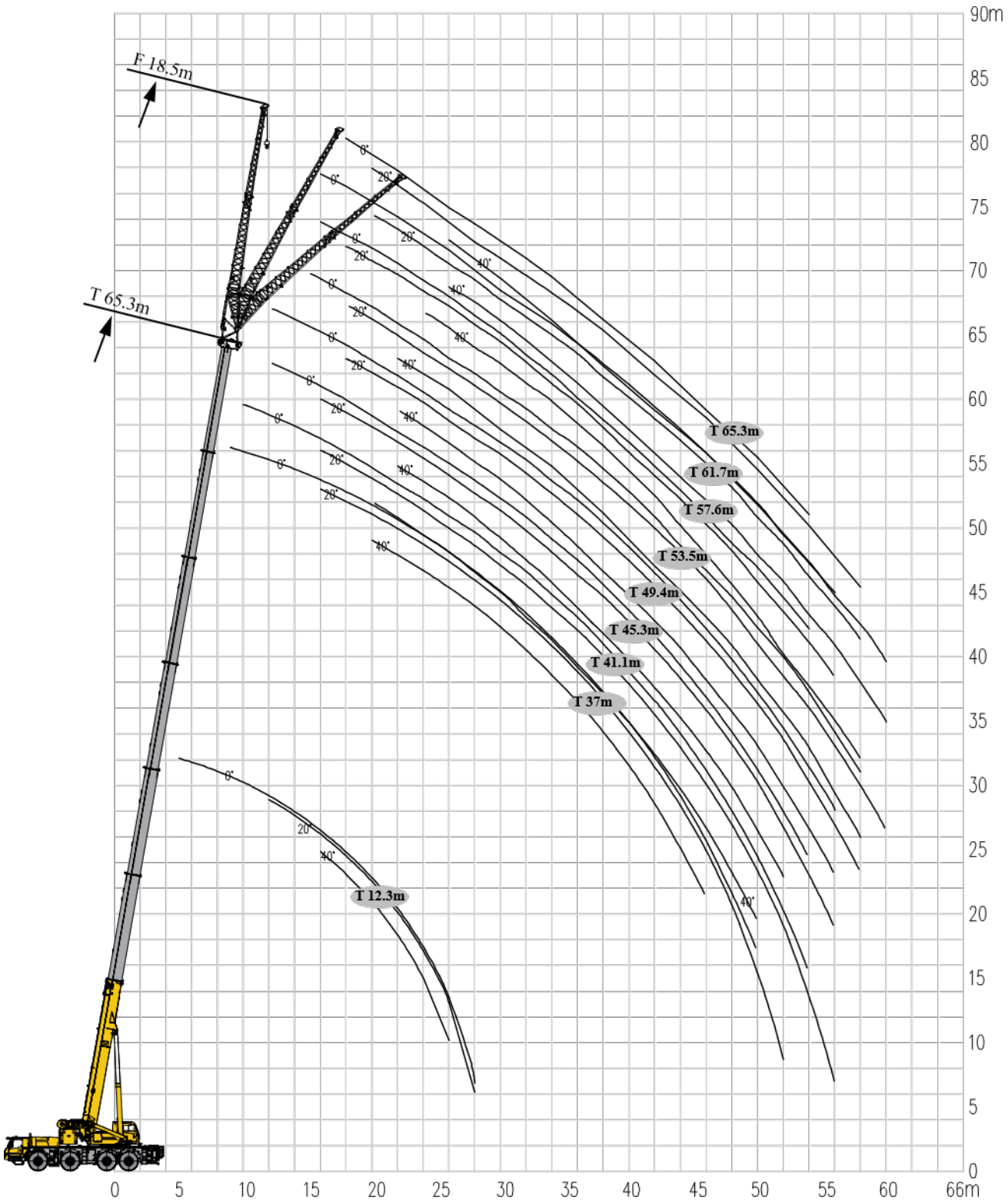
EN13000

		
12.3m~65.3m	11m	40°

		
7.6m×7.0m	18.7t	

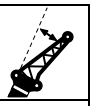
m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	m
10	5.7									10
12	5.3									12
14	5.0	6.1								14
16	4.6	5.8	5.8							16
18	4.5	5.6	5.6	5.7						18
20	4.5	5.3	5.4	5.4	5.4	5.3	5.5			20
22		5.1	5.2	5.2	5.2	5.2	5.2			22
24		5.0	5.0	5.1	5.1	5.0	5.0			24
26		4.8	4.9	5.0	4.9	4.9	4.9	4.9	4.3	26
28		4.6	4.8	4.7	4.7	4.7	4.6	4.5	4.2	28
30		4.3	4.0	3.8	3.8	3.9	4.0	4.2	4.0	30
32		3.6	3.2	3.0	3.4	3.5	3.3	3.5	3.5	32
34		2.9	2.5	2.5	3.1	3.4	2.6	2.9	2.8	34
36		2.3	2.2	2.4	2.9	2.9	2.1	2.3	2.3	36
38		1.8	2.0	2.1	2.6	2.4	1.6	1.8	1.8	38
40			1.8	2.0	2.1	1.9	1.1	1.3	1.3	40
42			1.6	1.7	1.7	1.5	0.7	0.9	0.9	42
44				1.6	1.3	1.1				44
46					1.0	0.8				46
48					0.7					48

Working range diagram for jib



TF counterweight in the rear position

EN13000

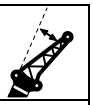
		
12.3m~65.3m	18.5m	0°

		
7.6m×7.0m	31.5t	

	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
5	6.8									5
6	6.8									6
7	6.8									7
8	6.8									8
9	6.8	5.8								9
10	6.6	5.8	5.4							10
12	5.5	5.8	5.4	5.2	4.6					12
14	4.7	5.8	5.4	5.2	4.6	4.2				14
16	4.1	5.8	5.4	5.2	4.6	4.2				16
18	3.7	5.8	5.4	5.2	4.6	4.2	3.7			18
20	3.3	5.7	5.4	5.2	4.6	4.2	3.7	3.3	2.8	20
22	2.9	5.7	5.4	5.2	4.6	4.2	3.7	3.3	2.8	22
24	2.7	5.2	5.4	5.2	4.6	4.2	3.6	3.3	2.8	24
26	2.5	4.8	5.1	5.1	4.6	4.2	3.6	3.3	2.8	26
28	2.3	4.4	4.7	5.0	4.6	4.2	3.6	3.3	2.8	28
30		4.1	4.4	4.7	4.6	4.2	3.6	3.3	2.8	30
32		3.8	4.1	4.3	4.5	4.2	3.6	3.3	2.8	32
34		3.6	3.9	4.1	4.2	3.9	3.5	3.3	2.8	34
36		3.4	3.6	3.8	3.8	3.5	3.2	3.1	2.8	36
38		3.2	3.4	3.5	3.4	3.1	3.0	2.9	2.7	38
40		3.0	3.2	3.0	2.9	2.9	2.7	2.6	2.5	40
42		2.8	2.8	2.5	2.4	2.4	2.5	2.4	2.3	42
44		2.7	2.4	2.1	2.0	2.0	2.1	2.2	2.1	44
46		2.5	2.0	1.8	1.7	1.7	1.8	1.9	1.9	46
48		2.2	1.7	1.4	1.4	1.6	1.4	1.6	1.5	48
50		1.9	1.4	1.1	1.3	1.4	1.1	1.3	1.2	50
52			1.1	0.8	1.1	1.2	0.8	1.0	0.9	52
54			0.8	0.6	1.0	1.1	0.6	0.7	0.7	54
56					0.9	1.0		0.5		56
58						0.8				58

TF counterweight in the rear position

EN13000

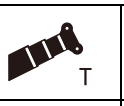
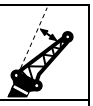
		
12.3m~65.3m	18.5m	20°

		
7.6m×7.0m	31.5t	

	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
12	3.4									12
14	3.2									14
16	2.8	3.9	3.9	4.1						16
18	2.5	3.6	3.7	3.9						18
20	2.3	3.4	3.5	3.5						20
22	2.1	3.2	3.3	3.4	3.5	3.6	3.6			22
24	2.0	3.0	3.1	3.2	3.3	3.3	3.4			24
26	1.9	2.8	3.0	3.0	3.1	3.2	3.3	3.4	3.0	26
28	1.8	2.7	2.7	2.9	2.9	3.0	3.1	3.1	3.0	28
30		2.6	2.6	2.8	2.8	2.9	2.9	3.0	3.0	30
32		2.5	2.5	2.7	2.7	2.8	2.8	2.9	3.0	32
34		2.3	2.4	2.5	2.6	2.6	2.7	2.8	2.9	34
36		2.2	2.2	2.4	2.5	2.6	2.6	2.7	2.8	36
38		2.1	2.1	2.3	2.3	2.5	2.5	2.6	2.7	38
40		2.0	2.1	2.2	2.3	2.4	2.4	2.5	2.5	40
42		2.0	2.0	2.1	2.2	2.3	2.4	2.4	2.3	42
44		1.9	2.0	2.0	2.1	2.2	2.2	2.3	2.2	44
46		1.8	1.9	2.0	2.0	2.1	2.1	2.1	1.9	46
48		1.8	1.8	1.8	1.7	1.8	1.9	1.9	1.8	48
50		1.8	1.6	1.5	1.4	1.4	1.6	1.7	1.6	50
52		1.6	1.3	1.1	1.1	1.3	1.2	1.4	1.4	52
54			1.0	0.8	1.0	1.1	0.9	1.1	1.1	54
56			0.7	0.5	1.0	1.0	0.7	0.8	0.8	56
58					0.8	0.9		0.6	0.5	58
60						0.8				60

TF counterweight in the rear position

EN13000

		
12.3m~65.3m	18.5m	40°

		
7.6m×7.0m	31.5t	

	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
16	2.1									16
18	2.0									18
20	1.9	2.4	2.4							20
22	1.8	2.3	2.3	2.4						22
24	1.6	2.2	2.2	2.3						24
26	1.6	2.1	2.2	2.3	2.3	2.3	2.3			26
28		1.9	2.1	2.1	2.2	2.2	2.2			28
30		1.8	1.9	2.0	1.9	2.2	2.2	2.1	2.0	30
32		1.8	1.8	1.9	1.9	2.1	2.1	2.1	1.9	32
34		1.7	1.8	1.8	1.8	2.0	1.9	1.9	2.0	34
36		1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.9	36
38		1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	38
40		1.6	1.7	1.6	1.7	1.7	1.7	1.8	1.8	40
42		1.6	1.6	1.6	1.7	1.7	1.7	1.8	1.8	42
44		1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	44
46		1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	46
48			1.6	1.6	1.6	1.6	1.7	1.7	1.7	48
50			1.6	1.6	1.6	1.6	1.7	1.7	1.6	50
52				1.3	1.3	1.4	1.5	1.6	1.4	52
54					1.1	1.2	1.2	1.4	1.3	54
56					1.0	1.1	0.9	1.1	1.0	56
58						1.0	0.6	0.8	0.8	58
60								0.5	0.5	60

TF counterweight in the rear position

EN13000

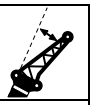
T	F	
12.3m~65.3m	18.5m	0°

		360°
7.6m×7.0m	18.7t	

m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	m
5	6.8									5
6	6.8									6
7	6.8									7
8	6.8									8
9	6.8	5.8								9
10	6.6	5.8	5.4							10
12	5.5	5.8	5.4	5.2	4.6					12
14	4.7	5.8	5.4	5.2	4.6	4.2				14
16	4.1	5.8	5.4	5.2	4.6	4.2				16
18	3.7	5.8	5.4	5.2	4.6	4.2	3.4			18
20	3.3	5.7	5.4	5.2	4.6	4.2	3.4	3.3	2.8	20
22	2.9	5.7	5.4	5.2	4.6	4.2	3.4	3.3	2.8	22
24	2.7	5.2	5.4	5.2	4.6	4.2	3.4	3.3	2.8	24
26	2.5	4.8	5.1	5.0	4.6	4.2	3.4	3.3	2.8	26
28	2.3	4.4	4.3	4.1	4.0	4.0	3.4	3.3	2.8	28
30		4.0	3.6	3.3	3.4	3.6	3.3	3.3	2.8	30
32		3.4	2.9	2.7	3.1	3.2	2.7	2.8	2.8	32
34		2.9	2.4	2.3	2.7	2.9	2.1	2.3	2.2	34
36		2.4	1.9	2.0	2.5	2.5	1.6	1.8	1.7	36
38		1.9	1.7	1.9	2.3	2.1	1.2	1.3	1.3	38
40		1.5	1.5	1.6	2.0	1.7	0.8	1.0	0.9	40
42		1.2	1.3	1.5	1.6	1.3		0.6	0.5	42
44		0.9	1.1	1.3	1.3	1.0				44
46		0.6	0.9	1.1	1.0	0.7				46
48			0.9	1.0	0.8					48
50			0.8	0.8	0.5					50

TF counterweight in the rear position

EN13000

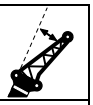
		
12.3m~65.3m	18.5m	20°

		
7.6m×7.0m	18.7t	

	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
12	3.4									12
14	3.2									14
16	2.8	3.9	3.9							16
18	2.5	3.6	3.7	3.9						18
20	2.3	3.4	3.5	3.5						20
22	2.1	3.2	3.3	3.4	3.5	3.6	3.6			22
24	2.0	3.0	3.1	3.1	3.3	3.3	3.4			24
26	1.8	2.8	3.0	3.0	3.1	3.2	3.3	3.4	3.0	26
28	1.7	2.7	2.7	2.9	2.9	3.0	3.1	3.1	3.0	28
30		2.6	2.6	2.8	2.8	2.9	2.9	3.0	3.0	30
32		2.4	2.5	2.6	2.7	2.8	2.8	2.9	3.0	32
34		2.3	2.3	2.5	2.6	2.6	2.7	2.8	2.9	34
36		2.2	2.2	2.2	2.4	2.5	2.3	2.5	2.4	36
38		2.0	1.9	1.8	2.2	2.4	1.8	2.0	1.9	38
40		1.9	1.5	1.6	2.1	2.1	1.4	1.5	1.5	40
42		1.5	1.3	1.4	1.8	1.7	1.0	1.1	1.1	42
44		1.1	1.1	1.3	1.6	1.4	0.6	0.8	0.7	44
46		0.8	0.9	1.1	1.3	1.1		0.4		46
48		0.5	0.9	0.9	1.0	0.8				48
50			0.7	0.8	0.7	0.5				50
52				0.7	0.5					52

TF counterweight in the rear position

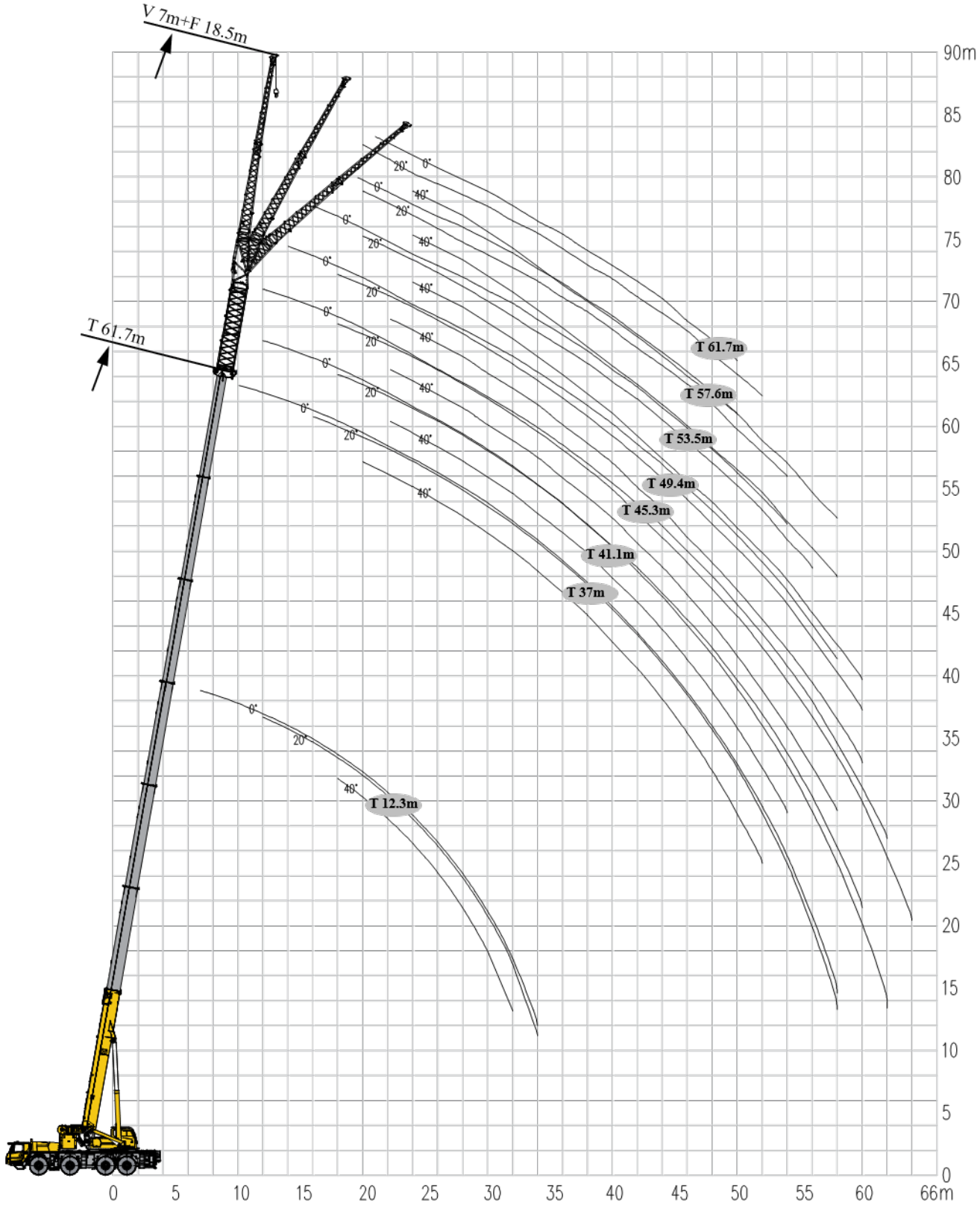
EN13000

		
12.3m~65.3m	18.5m	40°

		
7.6m×7.0m	18.7t	

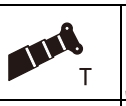
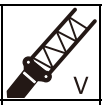
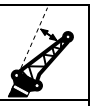
	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
16	2.1									16
18	2.0									18
20	1.9	2.3	2.3							20
22	1.8	2.2	2.2							22
24	1.6	2.1	2.1	2.1						24
26	1.6	2.0	2.0	2.1	2.1	2.1	2.1			26
28		1.9	2.0	2.0	2.0	2.1	2.0			28
30		1.8	1.9	2.0	1.9	2.0	2.0	2.0	2.0	30
32		1.8	1.8	1.9	1.9	2.0	2.0	1.9	1.9	32
34		1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	34
36		1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.9	36
38		1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	38
40		1.6	1.7	1.6	1.7	1.7	1.7	1.8	1.8	40
42		1.6	1.5	1.6	1.7	1.6	1.5	1.7	1.7	42
44		1.4	1.3	1.4	1.7	1.6	1.1	1.3	1.3	44
46		1.0	1.1	1.1	1.6	1.5	0.8	0.9	0.9	46
48			0.9	1.1	1.3	1.1		0.6	0.6	48
50			0.7	0.9	1.0	0.8				50
52				0.8	0.7	0.5				52

Working range diagram for boom extension+fixed jib



TFV counterweight in the rear position

EN13000

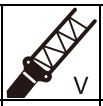
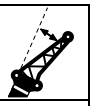
			
12.3m~61.7m	7m	25.5m	0°

		
7.6m×7.0m	31.5t	

m / m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	m / m
7	6.4								7
8	6.4								8
9	6.4								9
10	6.4	5.5							10
12	6.4	5.5	5.1	4.6					12
14	6.2	5.5	5.1	4.6	4.3	3.9			14
16	5.4	5.5	5.1	4.6	4.3	3.8			16
18	4.8	5.5	5.1	4.6	4.3	3.8	3.3	2.9	18
20	4.3	5.4	5.1	4.6	4.3	3.7	3.3	2.9	20
22	3.9	5.4	5.1	4.6	4.2	3.7	3.3	2.9	22
24	3.5	5.3	5.0	4.6	4.1	3.6	3.2	2.8	24
26	3.1	5.2	4.9	4.5	4.0	3.5	3.1	2.7	26
28	2.9	5.0	4.9	4.5	4.0	3.5	3.1	2.7	28
30	2.6	4.6	4.8	4.5	3.9	3.5	3.1	2.7	30
32	2.5	4.3	4.5	4.4	3.9	3.5	3.1	2.7	32
34	2.3	4.0	4.2	4.2	3.7	3.2	3.0	2.6	34
36		3.8	4.0	3.8	3.3	2.9	2.6	2.6	36
38		3.6	3.7	3.4	2.9	2.6	2.4	2.3	38
40		3.4	3.2	2.9	2.7	2.4	2.2	2.1	40
42		3.2	2.7	2.4	2.3	2.2	2.0	1.9	42
44		2.8	2.3	2.0	1.9	1.9	1.7	1.6	44
46		2.4	1.9	1.7	1.5	1.5	1.5	1.6	46
48		2.1	1.6	1.3	1.2	1.1	1.2	1.4	48
50		1.7	1.3	1.0	0.9	0.8	1.1	1.2	50
52		1.4	1.0	0.7	0.6	0.5			52
54		1.2	0.7	0.7	0.5	0.5			54
56		1.1	0.7						56
58		0.9							58

TFV counterweight in the rear position

EN13000

			
12.3m~61.7m	7m	25.5m	20°

		
7.6m×7.0m	31.5t	

m / m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	m / m
12	3.9								12
14	3.7								14
16	3.3	4.2							16
18	3.0	3.9	4.0	3.9					18
20	2.8	3.7	3.8	3.8					20
22	2.6	3.5	3.5	3.7	3.7	3.6	3.5		22
24	2.4	3.3	3.4	3.5	3.6	3.5	3.4		24
26	2.2	3.0	3.2	3.2	3.3	3.3	3.3	2.9	26
28	2.0	2.9	3.0	3.1	3.1	3.2	3.3	2.9	28
30	1.9	2.8	2.8	3.0	3.0	3.1	3.2	2.9	30
32	1.8	2.6	2.7	2.8	2.9	3.0	3.1	2.8	32
34	1.8	2.5	2.5	2.7	2.8	2.9	3.0	2.8	34
36		2.4	2.4	2.6	2.7	2.8	2.8	2.6	36
38		2.3	2.3	2.5	2.6	2.6	2.6	2.4	38
40		2.1	2.3	2.4	2.4	2.5	2.3	2.2	40
42		2.1	2.2	2.2	2.3	2.3	2.1	1.9	42
44		2.0	2.1	2.1	2.2	2.0	1.9	1.7	44
46		2.0	2.0	2.1	2.1	1.9	1.7	1.5	46
48		1.9	2.0	1.8	1.7	1.6	1.5	1.4	48
50		1.9	1.6	1.4	1.3	1.3	1.3	1.3	50
52		1.7	1.3	1.1	1.0	1.0	1.2	1.1	52
54		1.4	1.0	0.8	0.7	0.7	1.0		54
56		1.1	0.7	0.5	0.6	0.6			56
58		1.0	0.7						58

TFV counterweight in the rear position

EN13000

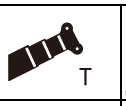
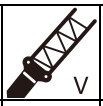
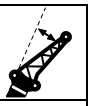
T	V	F	
12.3m~61.7m	7m	25.5m	40°

		360°
7.6m×7.0m	31.5t	

m / m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	m / m
18	2.1								18
20	2.1	2.3							20
22	2.0	2.3	2.3	2.4					22
24	1.9	2.2	2.2	2.3					24
26	1.8	2.1	2.1	2.1	2.2	2.2	2.3		26
28	1.8	2.1	2.1	2.1	2.1	2.2	2.2		28
30	1.7	2.0	2.0	2.0	2.1	2.1	2.2	2.2	30
32	1.6	1.9	1.9	2.0	1.9	1.9	2.0	2.0	32
34		1.8	1.8	1.9	1.9	1.9	1.9	1.9	34
36		1.8	1.8	1.8	1.9	1.9	1.9	1.9	36
38		1.7	1.8	1.8	1.8	1.8	1.9	1.9	38
40		1.7	1.6	1.8	1.8	1.8	1.8	1.8	40
42		1.7	1.6	1.7	1.8	1.8	1.8	1.8	42
44		1.6	1.6	1.7	1.6	1.7	1.8	1.8	44
46		1.6	1.6	1.7	1.6	1.7	1.8	1.7	46
48		1.6	1.6	1.6	1.6	1.6	1.6	1.4	48
50		1.6	1.6	1.6	1.6	1.6	1.4	1.3	50
52		1.6	1.5	1.3	1.3	1.3	1.2	1.0	52
54			1.1	1.0	0.9	1.0	1.1	0.9	54
56				0.7	0.6	0.7	0.8	0.7	56

TFV counterweight in the rear position

EN13000

			
12.3m~61.7m	7m	25.5m	0°

		
7.6m×7.0m	18.7t	

	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	
7	6.4								7
8	6.4								8
9	6.4								9
10	6.4	5.4							10
12	6.4	5.4	5.0	4.5					12
14	6.1	5.4	5.0	4.5	4.2	3.8			14
16	5.3	5.4	5.0	4.5	4.2	3.7			16
18	4.8	5.4	5.0	4.5	4.2	3.7	3.2	2.8	18
20	4.3	5.3	5.0	4.5	4.2	3.6	3.2	2.8	20
22	3.8	5.3	5.0	4.5	4.1	3.6	3.2	2.8	22
24	3.5	5.3	5.0	4.5	4.1	3.6	3.2	2.8	24
26	3.1	5.2	4.9	4.5	4.0	3.5	3.1	2.7	26
28	2.9	4.9	4.5	4.2	4.0	3.5	3.1	2.7	28
30	2.6	4.2	3.8	3.5	3.3	3.3	3.1	2.7	30
32	2.5	3.6	3.1	2.8	2.7	2.6	2.7	2.7	32
34	2.3	3.0	2.5	2.2	2.1	2.0	2.1	2.2	34
36		2.5	2.0	1.7	1.6	1.5	1.6	1.7	36
38		2.0	1.5	1.3	1.1	1.1	1.1	1.3	38
40		1.6	1.1	0.9	0.7	0.7	0.7	0.9	40
42		1.3	0.8	0.5				0.5	42
44		0.9	0.5						44
46		0.6							46

TFV counterweight in the rear position

EN13000

T	V	F	
12.3m~61.7m	7m	25.5m	20°

		360°
7.6m×7.0m	18.7t	

m / m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	m / m
12	3.9								12
14	3.7								14
16	3.3	4.2							16
18	3.0	3.9	4.0	3.9					18
20	2.8	3.7	3.8	3.8					20
22	2.6	3.5	3.5	3.7	3.7	3.6			22
24	2.4	3.3	3.4	3.5	3.6	3.5	3.4		24
26	2.2	3.0	3.2	3.2	3.3	3.3	3.3	2.9	26
28	2.0	2.9	3.0	3.1	3.1	3.2	3.3	2.9	28
30	1.9	2.8	2.8	3.0	3.0	3.1	3.2	2.9	30
32	1.8	2.6	2.7	2.8	2.9	3.0	3.1	2.8	32
34	1.8	2.5	2.5	2.7	2.8	2.9	3.0	2.8	34
36		2.4	2.4	2.5	2.4	2.4	2.5	2.6	36
38		2.3	2.2	2.0	1.9	1.9	1.9	2.1	38
40		2.1	1.8	1.5	1.4	1.4	1.5	1.6	40
42		1.7	1.3	1.1	1.0	1.0	1.1	1.2	42
44		1.4	1.0	0.7	0.6	0.6	0.7	0.8	44
46		1.0	0.6						46
48		0.7							48

TFV counterweight in the rear position

EN13000

T	V	F	
12.3m~61.7m	7m	25.5m	40°

		360°
7.6m×7.0m	18.7t	

m / m	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	m / m
18	2.1								18
20	2.1	2.3							20
22	2.0	2.3	2.3	2.4					22
24	1.9	2.2	2.2	2.3					24
26	1.8	2.1	2.1	2.1	2.2	2.2			26
28	1.8	2.1	2.1	2.1	2.1	2.2	2.2		28
30	1.7	2.0	2.0	2.0	2.1	2.1	2.2	2.2	30
32	1.6	1.9	1.9	2.0	1.9	1.9	2.0	2.0	32
34		1.8	1.8	1.9	1.9	1.9	1.9	1.9	34
36		1.8	1.8	1.8	1.9	1.9	1.9	1.9	36
38		1.7	1.8	1.8	1.8	1.8	1.9	1.9	38
40		1.7	1.6	1.8	1.8	1.8	1.8	1.8	40
42		1.7	1.6	1.6	1.5	1.5	1.6	1.7	42
44		1.6	1.3	1.2	1.1	1.1	1.2	1.3	44
46		1.3	0.9	0.8	0.7	0.7	0.8	0.9	46
48		0.9	0.6				0.5	0.6	48
50		0.6							50

Main technical parameters

Category	Item		Unit	Parameters
Dimensions	Dimensions (L×W×H)		mm	14552×2900×3975
	Axle spacing		mm	2500+2850+1700
	Track (front/rear)		mm	2364
	Front/rear overhang		mm	2510/2884
	Front/rear extension		mm	1896/212
Weights	Maximum permissible total weight		kg	48000
	Axle load	Axle 1	kg	12000
		Axle 2	kg	12000
		Axle 3	kg	12000
		Axle 4	kg	12000
Power	Engine model		——	OM471LA.E5-2
	Maximum net power/rpm		kW/rpm	360/1600
	Maximum output torque/rpm		N·m/rpm	2400/1300
Travel	Maximum travel speed		km/h	80
	Minimum stable travel speed		km/h	2
	Minimum turning diameter		m	18 (tight-turning radius steering) 21 (road steering)
	Minimum turning diameter at boom head		m	22.7 (tight-turning radius steering) 25.6 (road steering)
	Minimum ground clearance		mm	390
	Approach angle		°	21
	Departure angle		°	11
	Braking distance (initial speed at 30 km/h)		m	≤10
	Maximum grade ability		%	60
	Fuel consumption per 100 km		L	65

Main technical parameters

Category	Item			Unit	Parameters
Main performance	Maximum rated lifting capacity			t	120
	Minimum rated working radius			m	2.5
	Slewing radius at turntable tail	At the counterweight		mm	4665 Front position 4215 Rear position
		At auxiliary winch		mm	4845
	Maximum load moment	Base boom		m	3293
		Fully-extended boom		m	1682
		Fully-extended boom + jib		m	906
	Outrigger span	Longitudinal		m	7.6
		Lateral		m	7.0/5.95/5.0/3.83
	Lifting height	Base boom		m	13.4
		Fully-extended boom		m	64.3
		Fully-extended boom + jib		m	87
	Boom length	Base boom		m	12.3
		Fully-extended boom		m	66
		Fully-extended boom + jib		m	87.2
	Jib offset angle			°	0, 20, 40
Working speeds	Time for raising boom			s	≤60
	Time for fully extending the boom			s	≤550
	Maximum slewing speed			r/min	1.45
	Time for extending/ retracting outriggers	Outrigger beams	Retracting	s	≤25
			Extending	s	≤20
		Outrigger jacks	Retracting	s	≤45
			Extending	s	≤55
	Lifting speed (single line, no load)	Main winch system		m/min	≥135
		Auxiliary winch system		m/min	≥135

Description of symbols

	Superstructure
	Rated lifting load
	Counterweight
	Slewing radius of variable-position counterweight
	Hook block
	Parts of line
	Boom length combination
	Wind speed
	Configuration
	Optional equipment
	Wire rope length
	Wire rope diameter
	Maximum single line pull
	Maximum working speed
	Main winch
	Auxiliary winch

	Boom
	Boom length
	Boom working radius
	Lifting height with boom
	Boom angle
	Extension
	Independent jib head
	Simple jib head
	Fixed jib
	Fixed jib length
	Fixed jib offset angle
	Luffing jib
	Maximum lifting height
	Maximum working radius
	Super lift
	Wind power jib

Description of symbols

	Chassis		Luffing
	Outrigger span		Telescoping
	Tires		Slewing
	Axle load		360° slewing
	Grade ability		360° slewing with the 5th jack down
	Travel speed		Side and rear slewing
	EN 13000 standard		Luffing winch

OM code description

Operation mode code	Description
T	Boom OM
TF	Boom+jib OM
TFV	Boom+extension+jib OM
TI	Boom+independent jib head OM
TY	Boom+super lift OM
TYF	Boom+super lift+jib OM
TYFV	Boom+extension+super lift+jib OM
TYN	Boom+super lift+luffing jib OM
TYW	Boom+super lift+wind power jib OM

Cautions

1. The document is intended as reference only. It is only a guide and should not be used to operate the crane. See product manuals for correct operation instructions.

2. The total rated loads given in the load charts are the maximum lifting capacity (in tonne) under corresponding boom length and radius when the crane is set up on firm and level ground, which includes the weight of the hook block and rigging. The weight of above-mentioned devices should be deducted from the rated lifting load.

3. The working radius in the table is the horizontal distance from the load to the crane's slewing axis when lifting it off the ground.

4. Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried.

5. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed of 14.1 m/s, wind pressure of 125 N/㎡).

Add: No. 68, Gaoxin Road, Economic and Technological Development Zone, Xuzhou, Jiangsu, P. R. China
Tel: +86-516-83462242
Quality Inquiry Tel: +86-516-87888268
Spare Parts Tel: +86-516-83461542
Post Code: 221004
Website: www.xcmg.com

Service Tel
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